



11) Publication number:

0 377 971 A3

(12)

EUROPEAN PATENT APPLICATION

21) Application number: 89312897.5

(51) Int. Cl.5: G06F 12/08

22 Date of filing: 11.12.89

30 Priority: 13.01.89 US 297712

Date of publication of application: 18,07.90 Bulletin 90/29

② Designated Contracting States:
DE FR GB

© Date of deferred publication of the search report: 20.03.91 Bulletin 91/12

Applicant: International Business Machines
 Corporation
 Old Orchard Road
 Armonk, N.Y. 10504(US)

Inventor: Arimilli, Ravi Kumar 2209 Mimosa Trail Round Rock Texas 78664(US) Inventor: Dhawan, Sudhir 13206 Dauphine Street Austin Texas 78728(US)

Inventor: Nicholson, James Otto

5003 Sevan Cove
Austin Texas 78731(US)
Inventor: Siegel, David William
3801 Burr Oak Lane
Austin Texas 78727(US)

Representative: Bailey, Geoffrey Alan
IBM United Kingdom Limited Intellectual
Property Department Hursley Park
Winchester Hampshire SO21 2JN(GB)

(54) I/O bus caching.

© A cache for use with input/output devices attached to an input/output bus. Requests for access to system memory by an input/output device pass through the cache. Virtual memory addresses used by the input/output devices are translated into real addresses in the system memory. Virtual memory can be partitioned, with some virtual addresses being mapped to a second memory attached to the input/output bus.



EUROPEAN SEARCH REPORT

EP 89 31 2897

DOCUMENTS CONSIDERED TO BE RELEVANT					
egory		th indication, where appropriate, vant passages		evant claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
X	EP-A-0 052 370 (HITACHI * Page 1, lines 1-13; page 1 1 *	ENGINEERING CO., LTD) 1, line 3 - page 12, line 23; ci	1,6,	8	G 06 F 12/08
A	93-98, Waseca, MN, Denvill cache architecture to the co	. 30, no. 5, March 1982, page le, NJ, US; J. VANAKEN: "Ma emputer system" I - column 2, line 44; figures		8	
					TECHNICAL FIELDS SEARCHED (Int. CI.5) G 06 F 12/08
	The present search report has b	neen drawn up for all claims			
·	Place of search Date of completion of search		h I		Examiner
	The Hague	22 November 90		ΑĽ	RIAENSSENS M.T.K.P
Y: A: O: P:	CATEGORY OF CITED DOCU particularly relevant if taken alone particularly relevant if combined wit document of the same catagory technological background non-written disclosure intermediate document theory or principle underlying the in	h another D:	the filing da document c document c	te ited in the ited for o	